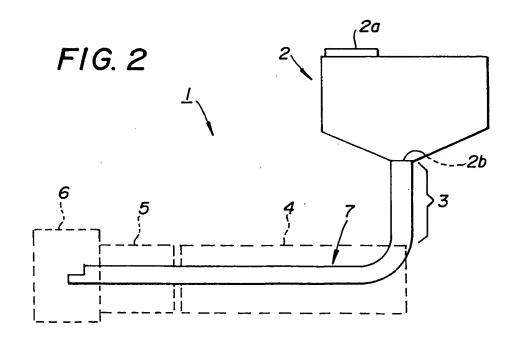
APPLN. FILING DATE: NOVEMBER 20, 2001

TYPLE: ELECTRONIC COMPONENT CHIP FEEDER AND SUFFICIENT OF ELECTRONIC DEVILOPMENTOR(S): KIYOYUKI NAKAGAWA ET AL.

APPLICATION SERIAL NO: 018976-210 SHEET 1 of 5

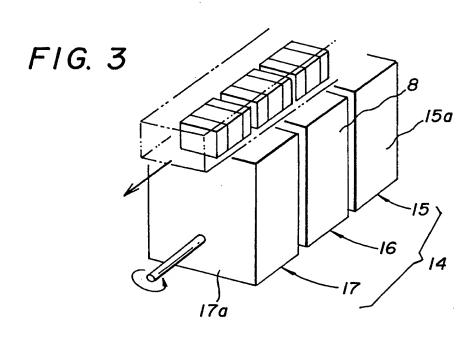
FIG. 1A FIG. 1B 13 13c 8a 13a -13b 1*B* 0 8 7a 9 -// 1B 10 '10a 12

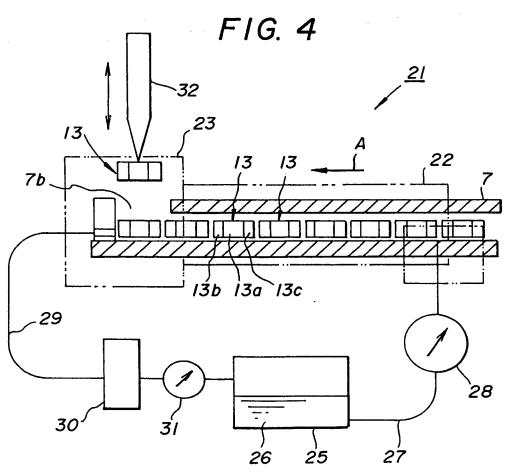


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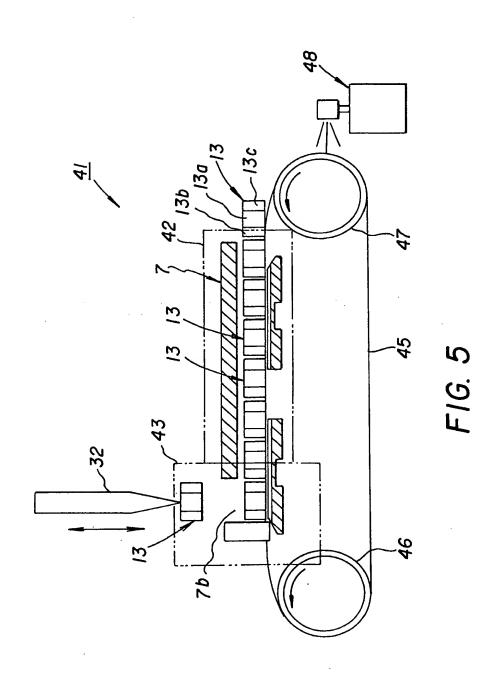
TITLE: ELECTRONIC COMPONENT CHIP FEEDER AND IFACTURING METHOD OF ELECTRONIC DEVIL IN ANTOR(S): KIYOYUKI NAKAGAWA ET AL.

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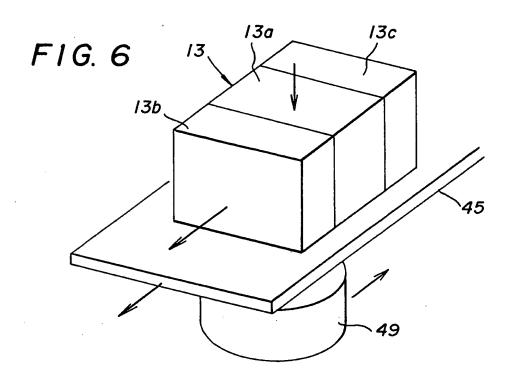


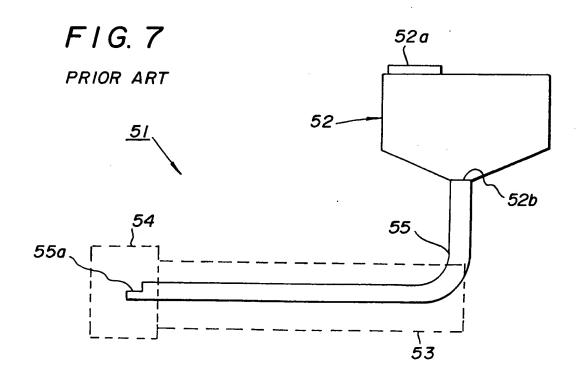


APPLN. FILING DATE: NOVEMBER 20, 2001
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APPLICATION SERIAL NO: 018976-210
SHEET 3 of 5



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IN NOTOR(S): KIYOYUKI NAKAGAWA ET AL.
APPLICATION SERIAL NO: 018976-210
SHEET 4 of 5





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TYPE: ELECTRONIC COMPONENT CHIP FEEDER AND FACTURING METHOD OF ELECTRONIC DEVICE INSTITUTOR(S): KIYOYUKI NAKAGAWA ET AL.

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